

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Date: July 22, 2003

JOHN D. RUSSELL,  
FREEMAN CARTER GATES, and  
ALLAN J. KOTWICKI

For : SYSTEM AND METHOD FOR AIR FLOW AND EGR FLOW  
ESTIMATION

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.56, 1.97, and 1.98**

Applicants are submitting this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98 to disclose to the Patent Office the patents, publications, applications, and/or other references listed on the enclosed, completed PTO-1449 forms. The filing of this Information Disclosure Statement should not be construed as a representation that a search has been made or as an admission that the listed references are prior art for this application. Applicants respectfully request that the listed references be expressly considered during prosecution of the application, and that the references be made of record therein and appear among the "references cited" on any patents issuing therefrom.

## CONTENT OF DISCLOSURE

This Information Disclosure Statement includes 3 pages of PTO-1449 forms; however, it does not include copies of the references listed on the forms, as permitted under 37 C.F.R. § 1.98(d), because copies already were provided in an earlier U.S. application (Serial No. 09/539,227) that is relied on here for an earlier effective filing date under 35 U.S.C. § 120.

## TIMING OF DISCLOSURE / FEE INFORMATION

This Information Disclosure Statement is being filed with the application. Therefore, in accordance with 37 C.F.R. § 1.97(b), no fee or statement under 37 C.F.R. § 1.97(e) is required.

Please contact the undersigned with any questions or comments regarding this Information Disclosure Statement.

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I hereby certify that the attached correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

  
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Respectfully submitted,

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FORM PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION	DOCKET NUMBER 198-1042 div.	APPLICATION NUMBER
	APPLICANT(S) John Russell, Freeman Gates, and Allan Kotwicki	
	FILING DATE	GROUP ART UNIT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,290,404	09/1981	Hata et al			
	4,390,001	06/1983	Fugimoto			
	4,406,161	09/1983	Locke et al			
	4,555,952	12/1985	Jenkins			
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	4,690,120	09/1987	Egle			
	5,086,655	02/1992	Fredericks et al			
	5,188,086	02/1993	Adkins et al			
	5,190,017	03/1993	Cullen et al			
	5,203,313	04/1993	Rotarius			
	5,205,260	04/27/1993	Takahashi et al			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
	2312284	1997	UK				
	0234511 A1		EP				
	0061856 A2		EP				

## OTHER DOCUMENTS

	"Experimental Methods for Engineers" J.P. Holman, pp. 184-236, Second Edition Mc Graw-Hill Book Company.
	"The Internal-Combustion Engine in Theory and Practice" Vol. 1: Thermodynamics, Fluid Flow, Performance, Second Edition, Revised, The MIT Press, by C.F. Taylor.

EXAMINER	DATE CONSIDERED
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	5,273,019	12/28/1993	Matthews et al			
	5,331,936	07/26/1994	Messih et al			
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	5,497,329	03/1996	Tang			
	5,508,926	04/1996	Wade			

## FOREIGN PATENT DOCUMENTS

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	10-53032	1998	Japan				
	050125996 A		Japan				
	060294317 A		Japan				
	060336956 A		Japan				

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	"System Dynamics"; Prentice Hall, ISBN 0-13 8803585-4, Ogata, pp. 250-255, 1978.
	"Modeling and Validation of Automotive Engine for Control Algorithm Development"; J. Moskwa, J. Hedrick; pp. 237-247; Advanced Automotive Technologies—1989; DSC-VOL. 13; Annual Meeting of The American Society of Mechanical Engineers, San Francisco, CA, Dec. 10-15, 1989.
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	5,537,977	07/1996	Hartman et al			
	5,546,795	08/1996	Yamagishi			
	5,577,484	11/1996	Izutani et al			
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES      NO
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EXAMINER	DATE CONSIDERED					